



**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at -20C  
#6946

## PINK1 (D8G3) Rabbit mAb

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W, IP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 60, 50	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q9BXM7	<b>Entrez-Gene Id:</b> 65018
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### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation

#### Dilution

1:1000  
1:50

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

### Specificity/Sensitivity

PINK1 (D8G3) Rabbit mAb recognizes endogenous levels of total PINK1 protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro140 of human PINK1 protein.

### Background

PTEN induced putative kinase 1, PINK1, is a mitochondrial serine/threonine kinase involved in the normal function and integrity of mitochondria, as well as in reduction of cytochrome c release from mitochondria (1-3). PINK1 phosphorylates Parkin and promotes its translocation to mitochondria (2). Research studies have shown that mutations in *PINK1* are linked to autosomal recessive early onset Parkinson's disease, and are associated with loss of protective function, mitochondrial dysfunction, aggregation of α-synuclein, as well as proteasome dysfunction (1,3).

### Background References

1. Liu, W. et al. (2009) *PLoS One* 4, e4597.
2. Kim, Y. et al. (2008) *Biochem Biophys Res Commun* 377, 975-80.
3. Petit, A. et al. (2005) *J Biol Chem* 280, 34025-32.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting **IP:** Immunoprecipitation

### Cross-Reactivity Key

**H:** Human

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